

<10> KURODA, Masaharu

<120> Plant with Reduced Protein Content in Seed, Method of Constructing the Same and Method of Using the Same

<130> 59150-8035

<140> US 10/539,992  
<151> 2003-12-04

<150> PCT/JP2003/015753  
<151> 2003-12-09

<150> JP 2002-369700  
<151> 2002-12-20

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<170> PatentIn version 3.3

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        35          40          45  
Glu Phe Val Arg Gln Gln Cys Ser Thr Val Ala Thr Pro Phe Phe Gln  
        50          55          60  
Ser Pro Val Phe Gln Leu Arg Asn Cys Gln Val Met Gln Gln Gln Cys  
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 65 70 75 80  
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 35 40 45  
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 50 55 60  
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 65 70 75 80  
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 Glu Phe Val Arg Gln Gln Tyr Gly Ile Ala Ala Ser Pro Phe Leu Gln  
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 85 90 95  
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 100 105 110  
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 Val Gln Gln Leu Gln Leu Gln Gln Phe Ser Gly Val Tyr Phe Asp Gln  
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 Ala Gln Ala Gln Ala Gln Ala Met Leu Gly Leu Asn Leu Pro Ser Ile  
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 Ser Ser Val Gln Ala Ile Val Gln Gln Leu Gln Gln Val Gly  
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 Val Val Tyr Phe Asp Gln Thr Gln Ala Gln Ala Gln Leu Leu Ala  
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 35 40 45  
 Glu Phe Val Arg Gln Gln Tyr Ser Ile Val Ala Thr Pro Phe Trp Gln  
 50 55 60  
 Pro Ala Thr Phe Gln Leu Ile Asn Asn Gln Val Met Gln Gln Gln Cys  
 65 70 75 80  
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 Ser Ile Val Gln Ala Ile Val Gln Gln Leu Gln Leu Gln Phe Ser  
 100 105 110  
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 65 70 75 80  
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35 40 45
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50 55 60
Ser Ala Ala Phe Gln Leu Arg Asn Asn Gln Val Trp Gln Gln Leu Ala
65 70 75 80
Leu Val Ala Gln Gln Ser His Tyr Gln Asp Ile Asn Ile Val Gln Ala
85 90 95
Ile Ala Gln Gln Leu Gln Leu Gln Phe Gly Asp Leu Tyr Phe Asp
100 105 110
Arg Asn Leu Ala Gln Ala Gln Ala Leu Leu Ala Phe Asn Val Pro Ser
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130 135 140
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 50 55 60  
 Ala Phe Gln Leu Arg Asn Asn Gln Val Trp Gln Gln Leu Ala Leu Val  
 65 70 75 80  
 Ala Gln Gln Ser His Tyr Gln Asp Ile Asn Ile Val Gln Ala Ile Ala  
 85 90 95  
 Gln Gln Leu Gln Leu Gln Gln Phe Gly Asp Leu Tyr Phe Asp Arg Asn  
 100 105 110  
 Leu Ala Gln Ala Gln Ala Leu Leu Ala Phe Asn Val Pro Pro Lys Tyr  
 115 120 125  
 Gly Ile Tyr Pro Arg Tyr Tyr Gly Ala Pro Ser Thr Ile Thr Thr Leu  
 130 135 140  
 Gly Gly Val Leu  
 145

<210> 21  
 <211> 769  
 <212> DNA  
 <213> Oryza sativa

<220>  
 <223> 13kd prolamin

<220>  
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 <222> (11)..(11)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (109)..(109)  
 <223> n is a, c, g, or t

<220>  
 <221> misc\_feature  
 <222> (207)..(207)  
 <223> n is a, c, g, or t

<400> 21  
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 ctctcctcctc cgcggtaccg gccgcctca ctctctgct ggaccccccng gccgccccgg 120  
 gccgcgcccc atcccggtgc gcgaccatc gttcacacag ttcaagcatt atacagaaaa 180  
 atagaaagat ctagtgtccc gcagcanatg aagatcattt tcgtctttgc tctccttgct 240  
 attgtgcgat gcaggcctct gccgagtttg atgtttttag gtcaaagtta taggcaatat 300  
 cagctgcagt gcctgtcct gctacagcaa caggtgctta gcccatataa tgagttcgta 360  
 aggcagcagt atggcatagc ggcaagcccc ttcttgcaat cagctgcatt tcaactgaga 420  
 aataaccaag tctggcaaca tcaggctggt ggccaacaat ctgcctatca ggacattaac 480  
 attgttcagg ccatagcgta cgagctacaa ctccagcaat ttggtgatct ctactttgat 540

## 591508035Seq1ist.txt

cggaatcagg	ctcaagctca	agctctattg	gcttttaacg	tgccatctag	atatggatc	600
taccctagg	actatgggtgc	accaggtacc	attaccaccc	ttggcggtgt	cttgtaattgt	660
gttttaacag	tatagttggt	cggaagttaa	aaataagctc	agatatcatc	atatgtgaca	720
tgtagaacct	tgggtgatat	aaatagaaat	aaagttgcct	ttcatattt		769

<210> 22  
 <211> 149  
 <212> PRT  
 <213> Oryza sativa

<220>  
 <223> 13kd prolamin

<400> 22  
 Met Lys Ile Ile Phe Val Phe Ala Leu Leu Ala Ile Ala Ala Cys Arg  
 1 5 10 15  
 Pro Leu Pro Ser Leu Met Phe Leu Gly Gln Ser Tyr Arg Gln Tyr Gln  
 20 25 30  
 Leu Gln Ser Pro Val Leu Leu Gln Gln Val Leu Ser Pro Tyr Asn  
 35 40 45  
 Glu Phe Val Arg Gln Gln Tyr Gly Ile Ala Ala Ser Pro Phe Leu Gln  
 50 55 60  
 Ser Ala Ala Phe Gln Leu Arg Asn Asn Gln Val Trp Gln His Gln Ala  
 65 70 75 80  
 Gly Gly Gln Gln Ser Arg Tyr Gln Asp Ile Asn Ile Val Gln Ala Ile  
 85 90 95  
 Ala Tyr Glu Leu Gln Leu Gln Gln Phe Gly Asp Leu Tyr Phe Asp Arg  
 100 105 110  
 Asn Gln Ala Gln Ala Gln Ala Leu Leu Ala Phe Asn Val Pro Ser Arg  
 115 120 125  
 Tyr Gly Ile Tyr Pro Arg Tyr Tyr Gly Ala Pro Ser Thr Ile Thr Thr  
 130 135 140  
 Leu Gly Gly Val Leu  
 145

<210> 23  
 <211> 609  
 <212> DNA  
 <213> Oryza sativa

<220>  
 <223> 13kd prolamin

<400> 23  
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 aatattaggc aatatacagg gtagtcgctc ctctgtctac agcaacagggt gcttaggccta 180  
 tataatgagt tcgtaaggca gcagtatagc attgcggcaa gcccttcttt gcaatcagct 240  
 gtgtttcaac tgagaaacaa ccaagtcttg caacagctca ggctgggtggc gcaacaaatct 300  
 cactaccagg acattaacgt tgtccaggcc atagcgagc agctacacct ccagcagttt 360  
 ggcgactctc acattgaccg gaatctggct caagcgcaac gactgtttggc ttttaactttg 420  
 ccatctacat atggatatcta cctagggtac tatagagcac cgggtagtat taccaccctt 480  
 ggcggtgtct tgtactgaat ttccacaata ttgtagttcg gaagtgaataa tataagcctc 540  
 aggtatcatc gtatgtgaca tgtgaaactt aaggtgatat aaatagaaat aaaattatct 600  
 ttcatattt 609

<210> 24  
 <211> 150  
 <212> PRT  
 <213> Oryza sativa

<220>  
 <223> 13kd prolamin

## 591508035Seqlist.txt

<400> 24  
 Met Lys Ile Ile Phe Val Phe Ala Leu Leu Ala Ile Ala Ala Cys Ala  
 1 5 10 15  
 Thr Ala Gln Phe Asp Val Leu Gly Gln Asn Ile Arg Gln Tyr Gln Val  
 20 25 30  
 Gln Ser Pro Leu Leu Leu Gln Gln Gln Val Leu Ser Leu Tyr Asn Glu  
 35 40 45  
 Phe Val Arg Gln Gln Tyr Ser Ile Ala Ala Ser Pro Phe Leu Gln Ser  
 50 55 60  
 Ala Val Phe Gln Leu Arg Asn Asn Gln Val Leu Gln Gln Leu Arg Leu  
 65 70 75 80  
 Val Ala Gln Gln Ser His Tyr Gln Asp Ile Asn Val Val Gln Ala Ile  
 85 90 95  
 Ala Gln Gln Leu His Leu Gln Gln Phe Gly Asp Leu Tyr Ile Asp Arg  
 100 105 110  
 Asn Leu Ala Gln Ala Gln Arg Leu Leu Ala Phe Asn Leu Pro Ser Thr  
 115 120 125  
 Tyr Gly Ile Tyr Pro Arg Tyr Tyr Arg Ala Pro Gly Ser Ile Thr Thr  
 130 135 140  
 Leu Gly Gly Val Leu Tyr  
 145 150

<210> 25  
 <211> 596  
 <212> DNA  
 <213> Oryza sativa

<220>  
 <223> 13kD prolamin

<400> 25  
 ccagcaaaat agaagatct agtgtccgc agcaatgaag atcattttcg tctttgctct 60  
 ccttgctatt gctgcatgca ggcctctgca gtttgatgtt ttagggtcaaa gttataggca 120  
 atatcagctg cagtcgctcg tcttctctaca gcaacatgtg ctttagcccat ataatgagtt 180  
 cgtaaggcag cagtatggca tagcggcaag ccccttcttg caatcagctg cgtttcaact 240  
 gagaaacaac caagtctggc aacagctcgc gctggtggcg caacaatctc actatcagga 300  
 cattaacatt gttcaggcca tagcgcagca gctacaactc cagcagtttg gtgatctcta 360  
 ctttgatcgg aatctggctc aagctcaagc tctgttggtc tttaacgtgc catctagata 420  
 tggatcttac cctaggctact atggtgcacc cagtaccatt accacccttg gcggtgtctt 480  
 tgaatgagtt ttaacagtat agtggttcgg aagataaaaa taagctcaga tatcatcata 540  
 gtgacatgt gaaacttttg gtgatataaa tagaaaaaaa gttgtctttc atattt 596

<210> 26  
 <211> 149  
 <212> PRT  
 <213> Oryza sativa

<220>  
 <223> 13kD prolamin

<400> 26  
 Met Lys Ile Ile Phe Val Phe Ala Leu Leu Ala Ile Ala Ala Cys Arg  
 1 5 10 15  
 Pro Leu Gln Phe Asp Val Leu Gly Gln Ser Tyr Arg Gln Tyr Gln Leu  
 20 25 30  
 Gln Ser Pro Val Leu Leu Gln Gln His Val Leu Ser Pro Tyr Asn Glu  
 35 40 45  
 Phe Val Arg Gln Gln Tyr Gly Ile Ala Ala Ser Pro Phe Leu Gln Ser  
 50 55 60  
 Ala Ala Phe Gln Leu Arg Asn Asn Gln Val Trp Gln Gln Leu Ala Leu  
 65 70 75 80  
 Val Ala Gln Gln Ser His Tyr Gln Asp Ile Asn Ile Val Gln Ala Ile

## 591508035Seq1ist.txt

85 90 95  
 Ala Gln Gln Leu Gln Leu Gln Gln Phe Gly Asp Leu Tyr Phe Asp Arg  
 100 105 110  
 Asn Leu Ala Gln Ala Gln Ala Leu Leu Ala Phe Asn Val Pro Ser Arg  
 115 120 125  
 Tyr Gly Ile Tyr Pro Arg Tyr Tyr Gly Ala Pro Ser Thr Ile Thr Thr  
 130 135 140  
 Leu Gly Gly Val Leu  
 145

<210> 27  
 <211> 285  
 <212> DNA  
 <213> Oryza sativa

<220>  
 <223> 13kd prolamin

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 gttcgttaagg caacagtata gcatagtggc aaccccccttc tggcaaccag ctacgtttca 60  
 tttgataaac aaccaagtca tgcagcagca gttttgccaa cagctcaggc tggtagcaca 120  
 acattctcac taccaggcca ttagtattgt tcaagcgatt gtgcaacagc tacaactgca 180  
 gcatttttagt ggtgtctact ttgatcagac tcaagctcaa gcccaactt ttttgacctt 240  
 caactttccc atccatatgt ggtatctacc ttaacttact attgt 285

<210> 28  
 <211> 94  
 <212> PRT  
 <213> Oryza sativa

<220>  
 <223> 13kd prolamin

<400> 28  
 Phe Val Arg Gln Gln Tyr Ser Ile Val Ala Thr Pro Phe Trp Gln Pro  
 1 5 10 15  
 Ala Thr Phe His Leu Ile Asn Asn Gln Val Met Gln Gln Gln Phe Cys  
 20 25 30  
 Gln Gln Leu Arg Leu Val Ala Gln His Ser His Tyr Gln Ala Ile Ser  
 35 40 45  
 Ile Val Gln Ala Ile Val Gln Gln Leu Gln Leu His Phe Ser Gly  
 50 55 60  
 Val Tyr Phe Asp Gln Thr Gln Ala Gln Ala Gln Thr Phe Leu Thr Phe  
 65 70 75 80  
 Asn Phe Pro Ser Ile Cys Gly Ile Tyr Leu Asn Leu Leu Leu  
 85 90

<210> 29  
 <211> 1836  
 <212> DNA  
 <213> Oryza sativa

<220>  
 <223> 13kd prolamin

<400> 29  
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 aaacttgaaa ctcaatttga gtgtttatcc tagctaatat gatcccttca tcttagaata 120  
 taacaatcta gaattagatg tgctatctaa acacattgta gtaggtaatg tgtcatctaa 180  
 tcttagatat aatctaaaac ggaaggtgaa acggaggagac tacctacata gtaattggcat 240  
 gccatgtgtg cttaatttga cccgtgcagc tgagtatatg tgatggagac aaaagtctact 300  
 ttcagtatgg caccaaagga gatttgttgg ggtgcctaata agaacatcga tcccaatgac 360  
 acgacacatc tagattctaa taggacatcc aagcaaaaca acacttagat cctaatagga 420

Atctcaagca	aaactaacac	tctagagaaa	cgcataagga	attgtaaaaag	ttgtccatc	480
attcttgaca	agagytatgt	tacagacaaa	attatttagtt	gagctctcgc	tactacgca	540
Tcacagaagt	ataacctaga	tataattaat	tacgatataa	agcnaaaata	cagcagcaac	600
aatgagggtg	aaaacttagaa	agaaggtat	atgattgttc	tcaagttatt	cagtcgcaaa	660
agatagttta	ctgtacacaa	aatggtataa	aaacctgatt	ttctcaacaa	agatagggaa	720
ctctgttaaa	ttgtcaggtt	tacctctaga	agttgtgttc	ttcttaccgg	accaggggaat	780
atattgtgat	gacacaaaag	ttaacttttc	gatgaaccca	aagggtattt	gttggggcac	840
tacacagaag	attctatctaa	atgacgatcg	tcaacttagat	tacataatga	catccaagca	900
aaactaacac	ttctaaagca	ccagatgaga	attgaagaaa	aatatatgcc	ctgcacatac	960
taaatagtaa	agcccaatga	aaacccctct	catcgtttac	acagctcaag	catattacata	1020
aaaagaagat	ctgattgtcc	gcagcaatga	agatcatttt	ccgcttttgc	ttctcttgtc	1080
atttctgcat	cgacacacct	tgcgtatagt	attgtttatg	tcaaaagtat	aggcaaatct	1140
agcctacgtc	gcctctctca	caacacaaac	agggctcttag	cccataataa	gactctgtaa	1200
ggcagcgata	tggcatacgc	gcaagccctc	ttcttgcaact	agctcgcgtt	aaactgagaa	1260
ataaccaagt	ctgcacaacg	cttcggcgctg	tggcgcaaca	atctctacat	caggacattaa	1320
acaattgttca	ggcctacatc	gcaggctctg	aactcagcca	gtttgggtat	ctctcatttg	1380
atcggaaatc	ggctcaagct	caagctctgt	tggcttttaa	ctgtgcacct	agatatagtaa	1440
tctacccttc	gtctactagt	acaccctgac	ccattaccac	ccttggccgt	gctctgtgta	1500
gagttttaac	atgatatagg	ttcgggaagt	aaaaataaag	tcatatatta	tcataatgta	1560
catgtgaaat	tctgggggtg	ataaatcgaa	ataaagttgt	ctttcatatt	taaataccat	1620
gccctctata	ggatataatc	tagtactaaa	tcgtaactaa	tttaccattc	cggtactctc	1680
caatttttca	gtgttcttca	attctgatcg	aagctcattt	gtttttaa	taataatgga	1740
gcgtataaag	gaatgtcctc	ctttctatcc	ataaagaaca	atgtaacatc	ctgaaatagt	1800
ctgtttttct	aaatctgcac	catccgcagt	cttatgt			1836

<210>	30
<211>	101
<212>	PRT
<213>	Oryza sativa

<220>  
<223> 13kD prolamin

[illegible]

<210>	31
<211>	622
<212>	DNA
<213>	Oryza sativa

<220>  
<223> 16kD prolamin

[illegible]

## 591508035Seq1ist.txt

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tgctggcttt	gttggcgagc	cccaagctca	ggcccaggcc	cagggtggctc	tcaatttgcc	420
ctccatgtgt	ggaggtctacc	ctagggtactg	cagcactcca	tgcaaaagtgtg	ctactgggtca	480
ttgcggtttt	tggttagtgtg	taccatcata	tatatatagt	tggaataaata	aagtgtcaca	540
catcatcgtg	tggtgcatgt	aataaaaattt	ggaatagctt	ttggctgttc	gtatgaataa	600
atgaaaaatta	taacaaaaaa	aa				622

<210> 32  
 <211> 149  
 <212> PRT  
 <213> Oryza sativa

<220>  
 <223> 16kD prolamin

<400> 32	
Met Lys Ile Phe Val Ile Leu Ser Leu Leu Ala Leu Ala Ala Ser Ser	
1 5 10 15	
Ala Ser Ala Gln Phe Asp Ala Cys Thr Tyr Gly Gln Cys Gln Gln Gln	
20 25 30	
Pro Phe Met Gln Pro Ile Met Asn Pro Cys Asn Glu Phe Val Arg Gln	
35 40 45	
Gln Cys Ser Pro Met Ser Leu Pro Trp Lys Gln Ser Arg Arg Leu Gln	
50 55 60	
Leu Ser Ser Cys Gln Val Met Arg Gln Gln Cys Gln Gln Met Arg	
65 70 75 80	
Leu Met Ala Gln Gln Tyr His Cys Gln Ala Ile Cys Thr Met Val Gln	
85 90 95	
Ser Ile Met Gln Gln Val Gln Phe Asp Ala Gly Phe Val Gly Glu Pro	
100 105 110	
Gln Ala Gln Ala Gln Ala Gln Val Ala Leu Asn Leu Pro Ser Met Cys	
115 120 125	
Gly Val Tyr Pro Arg Tyr Cys Ser Thr Pro Cys Lys Val Ala Thr Gly	
130 135 140	
His Cys Gly Ser Trp	
145	

<210> 33  
 <211> 562  
 <212> DNA  
 <213> Oryza sativa

<220>  
 <223> 10kD prolamin

<400> 33	
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acaccagcaa gatctttgccc ctgtttgctt taattgctct ttctgcaagt gccactactg	120
caatcaccac tatgcagtat ttcccaccaa cattagccat gggcaccatg gatccgtgta	180
ggcagtatcat gatgcaaacg ttgggcatgg gttagctccac agccatgttc atgtcgcagc	240
caatggcgct cctgcagcag caatgttgca tgcagctaca aggcgatgat cctcagtgcc	300
actgtggcac cagttgcccag atgatgcaga gcatgcaaca agttatttgt gctggactcg	360
ggcagcagca gatgatgaag atggcgatgc agatgccata catgtgcaac atggccccctg	420
tcaacttcca actctcttcc ttgtgtttgt gttagatcaaa cgttgggttac atgtactcta	480
gtaataaggt gttgcatact atcgtgtgca aacactagaa ataagaacca ttgaataaaa	540
tatcaatcat ttccagactt gc	562

<210> 34  
 <211> 134  
 <212> PRT  
 <213> Oryza sativa

<220>

## 591508035Seqlist.txt

&lt;223&gt; 10kD prolamin

&lt;400&gt; 34

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Met Ala Ala Tyr Thr Ser Lys Ile Phe Ala Leu Phe Ala Leu Ile Ala
1      5      10      15
Leu Ser Ala Ser Ala Thr Thr Ala Ile Thr Thr Met Gln Tyr Phe Pro
20      25      30
Pro Thr Leu Ala Met Gly Thr Met Asp Pro Cys Arg Gln Tyr Met Met
35      40      45
Gln Thr Leu Gly Met Gly Ser Ser Thr Ala Met Phe Met Ser Gln Pro
50      55      60
Met Ala Leu Leu Gln Gln Gln Cys Cys Met Gln Leu Gln Gly Met Met
65      70      75      80
Pro Gln Cys His Cys Gly Thr Ser Cys Gln Met Met Gln Ser Met Gln
85      90      95
Gln Val Ile Cys Ala Gly Leu Gly Gln Gln Gln Met Met Lys Met Ala
100     105     110
Met Gln Met Pro Tyr Met Cys Asn Met Ala Pro Val Asn Phe Gln Leu
115     120     125
Ser Ser Cys Gly Cys Cys
130

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&lt;210&gt; 35

&lt;211&gt; 332

&lt;212&gt; DNA

&lt;213&gt; Oryza rufipogon

&lt;220&gt;

&lt;223&gt; 10kD prolamin

&lt;400&gt; 35

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aattgctctt tctgcaagtg ccactactgc aatcaccact atgcagtatt tcccaccaac      60
attagccatg ggcaccatgg atccgtgtag gcagtacatg atgcaaacgt tgggcatggg      120
tagctccaca gccatgttca tgtcgcagcc aatggcgctc ctgcagcagc aatgttgcat      180
gcagctacaa ggcattgatgc ctcaagtcca ctgtggcacc agttgccaga tgatgcagag      240
catgcaacaa gttatttgtg ctggactcgg gcagcagcag atgatgaaga tggcgatgca      300
gatgccatac atgtgcaaca tggcccttgt ca                               332

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&lt;210&gt; 36

&lt;211&gt; 110

&lt;212&gt; PRT

&lt;213&gt; Oryza rufipogon

&lt;220&gt;

&lt;223&gt; 10kD prolamin

&lt;400&gt; 36

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Ile Ala Leu Ser Ala Ser Ala Thr Thr Ala Ile Thr Thr Met Gln Tyr
1      5      10      15
Phe Pro Pro Thr Leu Ala Met Gly Thr Met Asp Pro Cys Arg Gln Tyr
20      25      30
Met Met Gln Thr Leu Gly Met Gly Ser Ser Thr Ala Met Phe Met Ser
35      40      45
Gln Pro Met Ala Leu Leu Gln Gln Gln Cys Cys Met Gln Leu Gln Gly
50      55      60
Met Met Pro Gln Cys His Cys Gly Thr Ser Cys Gln Met Met Gln Ser
65      70      75      80
Met Gln Gln Val Ile Cys Ala Gly Leu Gly Gln Gln Met Met Lys
85      90      95
Met Ala Met Gln Met Pro Tyr Met Cys Asn Met Ala Pro Val
100     105     110

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&lt;210&gt; 37

## 591508035Seq1ist.txt

<211> 349  
 <212> DNA  
 <213> Oryza longistaminata

<220>  
 <223> 10kd prolamin

<220>  
 <221> misc\_feature  
 <222> (18)..(19)  
 <223> n is a, c, g, or t

<400> 37  
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 agtattttccc accaacatta gccatgggca ccatggatcc gtgtaggcag tacatgatgc 120  
 aaacgtttggg catgggttagc tccacaacca tgtttcatgtc gcagccaatg gcgctcctgc 180  
 agcagcaatg ttgcatgcag ctacaaggca tgatgcctca gtgccactgt ggcaccagt 240  
 gccagatgat gcagagcatg caacaagttg tttgtgctgg actcgggcag cagcagatga 300  
 tgatgaagat ggcaatgcag atgccatata tgtgcaacat ggccctctgt 349

<210> 38  
 <211> 116  
 <212> PRT  
 <213> Oryza longistaminata

<220>  
 <223> 10kd prolamin

<220>  
 <221> misc\_feature  
 <222> (6)..(6)  
 <223> Xaa can be any naturally occurring amino acid

<400> 38  
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 20 25 30  
 Pro Cys Arg Gln Tyr Met Met Gln Thr Leu Gly Met Gly Ser Ser Thr  
 35 40 45  
 Thr Met Phe Met Ser Gln Pro Met Ala Leu Leu Gln Gln Cys Cys  
 50 55 60  
 Met Gln Leu Gln Gly Met Met Pro Gln Cys His Cys Gly Thr Ser Cys  
 65 70 75 80  
 Gln Met Met Gln Ser Met Gln Gln Val Val Cys Ala Gly Leu Gly Gln  
 85 90 95  
 Gln Gln Met Met Lys Met Ala Met Gln Met Pro Tyr Met Cys Asn  
 100 105 110  
 Met Ala Pro Val  
 115

<210> 39  
 <211> 343  
 <212> DNA  
 <213> Oryza rufipogon

<220>  
 <223> 10kd prolamin

<400> 39  
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 ttccaccaa cattagccat ggccaccatg gatccgtgta gccagtatcat gatgcaaacg 120  
 ttgggcattg gtatgtccac agccatgttc atgtcgcagc caatggcgct cctgcagcag 180



## 591508035Seqlist.txt

caatgttgca tgcagctaca aggcgatgatg cctcagtgcc actgtggcac cagtgtgccag 240  
 atgatgcaga gcatgcaaca agttatttgt gctggactcg ggcagcagca gatgatgaag 300  
 atggcgatgc agatgccata catgtgcaac atggcccctg tca 343

<210> 40  
 <211> 113  
 <212> PRT  
 <213> Oryza rufipogon

<220>  
 <223> 10kd prolamin

<400> 40  
 Leu Phe Ala Leu Ile Ala Leu Ser Ala Ser Ala Thr Thr Ala Ile Thr  
 1 5 10 15  
 Thr Met Gln Tyr Phe Pro Pro Thr Leu Ala Met Gly Thr Met Asp Pro  
 20 25 30  
 Cys Arg Gln Tyr Met Met Gln Thr Leu Gly Met Gly Ser Ser Thr Ala  
 35 40 45  
 Met Phe Met Ser Gln Pro Met Ala Leu Leu Gln Gln Cys Cys Met  
 50 55 60  
 Gln Leu Gln Gly Met Met Pro Gln Cys His Cys Gly Thr Ser Cys Gln  
 65 70 75 80  
 Met Met Gln Ser Met Gln Gln Val Ile Cys Ala Gly Leu Gly Gln Gln  
 85 90 95  
 Gln Met Met Lys Met Ala Met Gln Met Pro Tyr Met Cys Asn Met Ala  
 100 105 110  
 Pro

<210> 41  
 <211> 339  
 <212> DNA  
 <213> Oryza rufipogon

<220>  
 <223> 10kd prolamin

<400> 41  
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 ccaccaacat tagccatggg caccatggat ccgtgtaggc agtacaatgat gcaaacgttg 120  
 ggcatagggta gctccacagc catgttccatg tcgcagccaa tggcgctcct gcagcagcaa 180  
 ttgttgatgc agctacaagg catgatgcct cagtgccact gtggcaccag ttgccagatg 240  
 atgcagagca tgcaacaagt tatttgtgct ggactcgggc agcagcagat gatgaagatg 300  
 gcgatgcaga tgccatacat gtgcaacatg gccctgtg 339

<210> 42  
 <211> 113  
 <212> PRT  
 <213> Oryza rufipogon

<220>  
 <223> 10kd prolamin

<400> 42  
 Phe Ala Leu Ile Ala Leu Ser Ala Ser Ala Thr Thr Ala Ile Thr Thr  
 1 5 10 15  
 Met Gln Tyr Phe Pro Pro Thr Leu Ala Met Gly Thr Met Asp Pro Cys  
 20 25 30  
 Arg Gln Tyr Met Met Gln Thr Leu Gly Met Gly Ser Ser Thr Ala Met  
 35 40 45  
 Phe Met Ser Gln Pro Met Ala Leu Leu Gln Gln Gln Cys Cys Met Gln  
 50 55 60  
 Leu Gln Gly Met Met Pro Gln Cys His Cys Gly Thr Ser Cys Gln Met

591508035seq1.txt

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65      70      80
Met Gln Ser Met Gln Gln Val Ile Cys Ala Gly Leu Gly Gln Gln Gln
      85
Met Met Lys Met Ala Met Gln Met Pro Tyr Met Cys Asn Met Pro
      100      105      110

val

<210> 43
<211> 343
<212> DNA
<213> Oryza rufipogon

<220>
<223> 10kd prolamin

<220>
<221> misc_feature
<222> (19)..(19)
<223> n is a, c, g, or t

<400> 43
cctctgtttgc ctttaattgnt ctttctgcaa gtgccactac tgcaatcacc actatgcagt 60
atttcccccac aacattagcc atggggcacca tggatccgtg taggcagtac atgatgcaaa 120
cgtttgggcat gggtagctcc acagcccatgt tcatgtcgca gccaatggcg ctctctgcagc 180
agcaatgtttg catgcagcta caagccatgta tgcctcagtg ccactgtggc accagtgtgc 240
agatgatgca gagcatgcaa caagttattt gtgctggact cgggcagcag catgatgaca 300
agatggcgat gcagatgcca tacatgtgca acatggcccc tgt 343

<210> 44
<211> 114
<212> PRT
<213> Oryza rufipogon

<220>
<223> 10kd prolamin

<220>
<221> misc_feature
<222> (6)..(6)
<223> Xaa can be any naturally occurring amino acid

<400> 44
Leu Phe Ala Leu Ile Xaa Leu Ser Ala Ser Ala Thr Thr Ala Ile Thr
1 5 10 15
Thr Met Gln Tyr Phe Pro Pro Thr Leu Ala Met Gly Thr Met Asp Pro
20 25 30
Cys Arg Gln Tyr Met Met Gln Thr Leu Gly Met Gly Ser Ser Thr Ala
35 40 45
Met Phe Met Ser Gln Pro Met Ala Leu Leu Gln Gln Gln Cys Cys Met
50 55 60
Gln Leu Gln Gly Met Met Pro Gln Cys His Cys Gly Thr Ser Cys Gln
65 70 75 80
Met Met Gln Ser Met Gln Gln Val Ile Cys Ala Gly Leu Gly Gln Gln
85 90 95
Gln Met Met Lys Met Ala Met Gln Met Pro Tyr Met Cys Asn Met Ala
100 105 110

Pro val

<210> 45
<211> 533
<212> DNA
<213> Oryza sativa

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## 591508035Seq1ist.txt

&lt;220&gt;

&lt;223&gt; 10kd prolamin

&lt;400&gt; 45

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gatccgtgtg	ggcagttacat	gatgcaaacg	ttgggcatgg	gtagctccac	agccatgttc	180
atgtcgcagc	caatggcgct	ccctgctcag	caatgttgca	tgagctaca	agggcatgatg	240
ccctcagtgc	actgtggcac	cagttgccag	atgatgcaga	gcatgcaaca	agttatttgt	300
gctggactcg	ggcagcagca	gatgatgaag	atggcgatgc	agatgccata	catgtgcaac	360
atggccctcg	tcaactttca	actctcttcc	tggtgtgtgt	gttgatgaaa	cgttgggttac	420
atgtactcta	gtaataaggt	gttgcatact	atcgtgtgca	aacactagaa	ataagtacca	480
ttgaataaaa	tatcaaacat	tttcagactt	gcaaaaaaaaa	aaaaaaaaaa	aaa	533

&lt;210&gt; 46

&lt;211&gt; 134

&lt;212&gt; PRT

&lt;213&gt; Oryza sativa

&lt;220&gt;

&lt;223&gt; 10kd prolamin

&lt;400&gt; 46

Met	Ala	Ala	Tyr	Thr	Ser	Lys	Ile	Phe	Ala	Leu	Phe	Ala	Leu	Ile	Ala
1			5				10						15		
Leu	Ser	Ala	Ser	Ala	Thr	Thr	Ala	Ile	Thr	Thr	Met	Gln	Tyr	Phe	Pro
			20				25						30		
Pro	Thr	Leu	Ala	Met	Gly	Thr	Met	Asp	Pro	Cys	Arg	Gln	Tyr	Met	Met
			35				40						45		
Gln	Thr	Leu	Gly	Met	Gly	Ser	Ser	Thr	Ala	Met	Phe	Met	Ser	Gln	Pro
			50				55						60		
Met	Ala	Leu	Leu	Leu	Gln	Cys	Cys	Met	Gln	Leu	Gln	Gly	Met	Met	
65					70				75				80		
Pro	Gln	Cys	His	Cys	Gly	Thr	Ser	Cys	Gln	Met	Met	Gln	Ser	Met	Gln
				85					90				95		
Gln	Val	Ile	Cys	Ala	Gly	Leu	Gly	Gln	Gln	Gln	Met	Met	Lys	Met	Ala
			100					105					110		
Met	Gln	Met	Pro	Tyr	Met	Cys	Asn	Met	Ala	Pro	Val	Asn	Phe	Gln	Leu
			115				120					125			
Ser	Ser	Cys	Gly	Cys	Cys										
			130												

&lt;210&gt; 47

&lt;211&gt; 940

&lt;212&gt; DNA

&lt;213&gt; Oryza sativa

&lt;220&gt;

&lt;223&gt; 10kDa prolamin promoter

&lt;400&gt; 47

aatttagatc	tatacatccg	ttgtgtacatc	tctactactc	tagtactaaa	aacatgagat	60
ctgaacatgg	ctgcataggt	tctccatccc	aattcaccct	gcagtgatcg	ctgcactgga	120
taattataat	atcagttaaa	attgaaaata	atgcaacttc	atacttgcat	gggtcagta	180
gtgcctgcct	aagaaatgtg	tcttgtcata	atatgattac	atgaaatagt	tttacttctc	240
tcgtttctct	ttatttgttaa	gataaagaac	tagatatgtg	gaaagttaga	tagcaaagag	300
tatggccaaa	ctctaatctt	tgctttattt	tttgggatgg	accctaaatt	tggttctctc	360
ttacttcttt	ccctttacaa	caatgttctt	tacttccaat	tcttattaac	aaaactccaa	420
atacatgccca	aactgcatac	gtatgtatgc	tattaaagca	cattttacaaa	gtctcaagtt	480
tacctactca	atacttcaca	tatggcgatg	actcaaaact	ttaattgtta	ctgtgtgaag	540
ctgtgacttg	tgtaaacacat	tctacaagtc	ccatacgaat	tctgttcaca	aaagtgttct	600
tgctccagctc	ataatttaca	aaactgcaaa	atgccaaagc	aactctggcac	aactcttatca	660
tcatattttc	tttccacgca	ttaaagcact	ggcagaatta	tctttgtgta	gatattccaa	720

## 591508035Seq1ist.txt

aagtattggt	tgaataaatg	tccaaaataa	ttccatgcct	catgatttcc	agcttatgtg	780
gcctccacta	gggtggtttt	caaaggccaa	actcttttct	ggcttacaca	gctaccagca	840
tgataaata	ggccccatgg	caaccattat	tccatcatcc	taacaatat	tgtctacacc	900
atctggaatc	ttgtttaaca	ctagtattgt	agaatcagca			940

<210> 48  
 <211> 1351  
 <212> DNA  
 <213> *Oryza sativa*

<220>  
 <223> GLUTELIN-B1 promoter

<400> 48						
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agatatggat	tttctaagat	taattgattc	tctgtctaaa	gaaaaaaagt	attattgaat	120
taaatggaaa	aagaaaaagg	aaaaaaggga	tggtctctgc	tttttgggct	gaaggcggcg	180
tgtggccagc	gtgctgcgtg	cggacacgca	gcgaacacac	gacggagcag	ctacgacgaa	240
cgggggaccg	agtggaccgg	acgaggatgt	ggcctaggag	gagtgacaaa	ggctagtggg	300
ctcggctccc	gcgcggtatc	ccgagtggtc	cactgtctgc	aaacacgatt	cacatagagc	360
gggcagacgc	gggagccgtc	ctaggtgcac	cggaagcaaa	tcgcgtccct	gggtggattt	420
gagtgacacg	gcccacgtgt	agcctcacag	ctctccgtgg	tcagatgtgt	aaaaattatca	480
taatatgtgt	ttttcaata	gttaataaat	atataatagg	aagtatatgt	gggtcaataag	540
cagtaaaaag	gcttatgaca	tggtaaaatt	acttacacca	atatgcctta	ctgtctgata	600
tattttacat	gacaacaaag	ttacaagtac	gtcattttaa	aatacaagtt	acttatcaat	660
tgtagtgtag	caagtataatg	acaacaaacc	tacaaatttg	ctattttgaa	ggaacactta	720
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aacatgctta	caagtattat	tcatctttaa	gttagactca	tcttctcaag	cataagagct	1020
ttatggtgca	aaaacaaata	taatgacaag	gcaaaagatc	atacatatta	agagtatgga	1080
cagacatttc	tttaacaaac	tccatttgtt	ttacttcaaa	agcaccagaa	gtttgtcatg	1140
gctgagtcac	gaaatgtata	gttcaatctt	gcaaaagtgc	ctttctcttt	gtttgtgtgt	1200
ttaacactac	aagccatata	ttgtctgtac	gtgcaacaaa	ctatatcacc	atgtatccca	1260
agatgctttt	ttattgtcat	ataaaactgag	ttggtctgtc	tttgaaactca	catcaattag	1320
cttaagtttc	cataagcaag	tacaatatgc	t			1351

<210> 49  
 <211> 852  
 <212> DNA  
 <213> Unknown

<220>  
 <223> CamV 35S gene promoter

<400> 49						
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gagaaagata	tattttctaa	gatcagaagt	actattccag	tatggacgat	tccaggctgt	240
cttcacaaac	caaggccaagt	aatagagatt	ggagtcctta	aaaaggtagt	ttccactgaa	300
tcaaaaggcca	tgtagtcaaa	gattcacaata	gaggacctaa	cagaactcgc	cgtaaaagct	360
ggcgaaatcg	tcatacacag	tctcttacga	ctcaatgaca	agaagaaaat	cttcgtcaac	420
atggtggagc	acgacacact	tgtctactcc	aaaaatatca	aagatcacagt	ctcagaagac	480
caaaaggcaa	ttgagacttt	tcaacaagg	gtaatatccg	gaacctctct	cggtattccat	540
tgccagacta	ctgtgacttt	tattgtgaag	atagtggaag	aggaagggtg	ctctacaaaa	600
tgccattatt	ggcataaaag	aaaggccatc	gttgaagatg	cccttgcgga	cagtggtccc	660
aaagatggag	ccccccacc	gaggagcatc	gtggaaaaag	aagacgttcc	aaccactgtc	720
tcaaaagcaag	tggtattgat	tgatatcttc	actgacgtaa	gggtagcgc	aaactccacc	780
tatccttctgc	aagacccttc	ctctatataa	ggaagttcat	ttcatttggg	gagaacacgg	840
gggactgtcg	ag					852

## 591508035Seq1ist.txt

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<210> 50
<211> 1047
<212> DNA
<213> Artificial Sequence

<220>
<223> recombinant construct

<400> 50
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tccactatcg gggagtactt ctacacagcc atcggtccag acggccgcgc ttctgcgggg 120
gattttgtga cgcccgcagc tcccgggtcc ggatcggacg attgcgtcgc atcgaccctg 180
cgcccaagct gcatactcga aattgccgtc aaccaagctc tgatagagtt ggtcaagacc 240
aatgcggagc atatacgccc ggagccgcgg cgatcctgca agctccggat gcctccgcctc 300
gaagtagcgc gtctgctgct ccatacaagc caaccacggc ctccagaaga agatgttggc 360
gacctcgatg tgggaatccc cgaacatcgc ctgcctccag tcaatgaccg ctgttatgcg 420
gccattgtcc gtcaggacat tgttggagcc gaaatccgcg tgcacgaggt gccggacttc 480
ggggcagctc tcggcccaaa gcatcagctc atcgagagcc tgcgcgacgg acgcactgac 540
ggtgtcgctc atcacagttt gccagtata cacatgggga tcagcaatcg cgcataatgaa 600
atcacgccat gtagtgtatt gaccgattcc ttgcggctcg aatggggcga acccgctcgt 660
ctggctaaga tcggccgcag cgatcgcata catgacctcc gcgaccggct gaagaacagc 720
gggcagttcg gtttcaggca ggtcttgcaa cgtgacaccc tgtgcacggc gggagatgca 780
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ccgacggaca tatccacgcc ctctacatc gaagctgaaa gcacgagatt ctctgccctc 960
cgagagctgc atcaggtcgg agacgctgtc gaacttttcg atcagaaact tctcgacaga 1020
cgtcgcggtg agttcaggct ttttcat                                     1047

<210> 51
<211> 67
<212> DNA
<213> Artificial Sequence

<220>
<223> recombinant construct

<400> 51
aatgaagatc attttcgtat ttgctctcct tgctattggt gcatgcaacg cttctgcacg 60
gtttgat                                     67

<210> 52
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> recombinant construct

<400> 52
atgaagatca ttttc                                     15

<210> 53
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> recombinant construct

<400> 53
ggatcccggt gtacc                                     15

<210> 54

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## 591508035Seq1ist.txt

<211> 1047  
 <212> DNA  
 <213> Unknown

<220>  
 <223> hygromycin phosphotransferase gene

<400> 54  
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 gtaggaggcg gtggatatgt cctgcgggta aatagctcgc ccgatgggtt ctacaaagat 180  
 cgttatgttt atcggcactt tgcattcgcc gcgctcccga ttccgggaagt gcttgacatt 240  
 ggggagttca gcgagagcct gacctattgc atctcccgcc gtgcacaggg tgtcacgttg 300  
 caagacctgc ctgaaaccga actgcccgct gttcttcagc cggtcgcgga ggatcatggat 360  
 gcgatgcgtg cggccgatct tagccagacg agcgggttcg gccattcgg accgcaagga 420  
 atcgggtcaat acactacatg gcgtgatctc atatgcgcga ttgctgatcc ccattgtgat 480  
 cactggcaaa ctgtgatgga cgacaccgtc agtcgctcgc tcgcgcaggg tctcgatgag 540  
 ctgatgtctt gggccgagga ctgccccgaa gtccggcacc tcgtgcacgc ggatttcgac 600  
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 tgtatggagc agcagacgcg ctacttcgag cggaggcatc cggagcttgt aggatcccg 780  
 cggctccggc cgtatatgct ccgcatttgt cttgaccaac tctatcagag cttggttgac 840  
 ggcaatttcg atgatgcagc ttgggcgcag ggtcgatcgc acgcaatcgt ccgatccgga 900  
 gccgggactg tcgggcgtac acaaatcgcc cgcagagcgc cggccgtctg gaccgatggc 960  
 tgtgtagaag tactcgcca tagtggaaac cgacgcccca gcactcgtcc gagggcaag 1020  
 gaatagagta gatccgacc gtctagt 1047

<210> 55  
 <211> 265  
 <212> DNA  
 <213> Unknown

<220>  
 <223> Nos terminator

<400> 55  
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 cgggtcttgcg atgattatca tataatttct gttgaattac gttaagcatg taataattaa 120  
 catgtaatgc atgacgttat ttatgagatg ggtttttatg attagagtcc cgcaattata 180  
 catttaatac gcgatagaaa acaaaatata gcgcgcaaac taggataaat tatcgcgcgc 240  
 ggtgtcatct atgttactag atcgc 265

<210> 56  
 <211> 341  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> recombinant construct HPT

<400> 56  
 Met Lys Lys Pro Glu Leu Thr Ala Thr Ser Val Glu Lys Phe Leu Ile  
 1 5 10 15  
 Glu Lys Phe Asp Ser Val Ser Asp Leu Met Gln Leu Ser Glu Gly Glu  
 20 25 30  
 Glu Ser Arg Ala Phe Ser Phe Asp Val Gly Gly Arg Gly Tyr Val Leu  
 35 40 45  
 Arg Val Asn Ser Cys Ala Asp Gly Phe Tyr Lys Asp Arg Tyr Val Tyr  
 50 55 60  
 Arg His Phe Ala Ser Ala Ala Leu Pro Ile Pro Glu Val Leu Asp Ile  
 65 70 75 80  
 Gly Glu Phe Ser Glu Ser Leu Thr Tyr Cys Ile Ser Arg Arg Ala Gln  
 85 90 95

591508035Seq1ist.txt

Gly Val Thr Leu Gln Asp Leu Pro Glu Thr Glu Leu Pro Ala Val Leu  
 100 105 110  
 Gln Pro Val Ala Glu Val Met Asp Ala Ile Ala Ala Ala Leu Ser  
 115 120 125  
 Gln Thr Ser Gly Phe Gly Pro Phe Gly Pro Gln Gly Ile Gly Gln Tyr  
 130 135 140  
 Thr Thr Trp Arg Asp Phe Ile Cys Ala Ile Ala Asp Pro His Val Tyr  
 145 150 155 160  
 His Trp Gln Thr Val Met Asp Asp Thr Val Ser Ala Ser Val Ala Gln  
 165 170 175  
 Ala Leu Asp Glu Leu Met Leu Trp Ala Glu Asp Cys Pro Glu Val Arg  
 180 185 190  
 His Leu Val His Ala Asp Phe Gly Ser Asn Asn Val Leu Thr Asp Asn  
 195 200 205  
 Gly Arg Ile Thr Ala Val Ile Asp Trp Ser Glu Ala Met Phe Gly Asp  
 210 215 220  
 Ser Gln Tyr Glu Val Ala Asn Ile Phe Phe Trp Arg Pro Trp Leu Ala  
 225 230 235 240  
 Cys Met Glu Gln Gln Thr Arg Tyr Phe Glu Arg Arg His Pro Glu Leu  
 245 250 255  
 Ala Gly Ser Pro Arg Leu Arg Ala Tyr Met Leu Arg Ile Gly Leu Asp  
 260 265 270  
 Gln Leu Tyr Gln Ser Leu Val Asp Gly Asn Phe Asp Asp Ala Ala Trp  
 275 280 285  
 Ala Gln Gly Arg Cys Asp Ala Ile Val Arg Ser Gly Ala Gly Thr Val  
 290 295 300  
 Gly Arg Thr Gln Ile Ala Arg Arg Ser Ala Ala Val Trp Thr Asp Gly  
 305 310 315 320  
 Cys Val Glu Val Leu Ala Asp Ser Gly Asn Arg Arg Pro Ser Thr Arg  
 325 330 335  
 Pro Arg Ala Lys Glu  
 340

<210> 57  
 <211> 2158  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> recombinant construct CAMV35S-Modified HPT-NOS

<400> 57  
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 tacgcagcag gtctcatcaa gacgatctac ccgagcaata atctccaggga aatcaaatac 120  
 cttcccaaga aggttaaaga tgcagtcaaa agattcaggga ctaactgcat caagaacaca 180  
 gagaaagata tattttctcaa gtcagaaagt actattccag tatggacgat tcaaggcgttg 240  
 cttccacaaa caaggccaagt aatagagatt ggagtctcta aaaaggtagt tccccactgaa 300  
 tcaaaggcca tggagtcaaa gattcaataa gaggacctaa cagaactctgc cgtaaagact 360  
 ggcgaacagt tcatacagag tctctactca ctaaatgaca agaagaaaat cttctgtaac 420  
 atggtggagc acgacacact tttctactcc aaaaaatatca aagatagagt ctcagaagac 480  
 caaagggcaa ttgagacttt tcaacaagg gtaatatccg gaaacctctc cggattccat 540  
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 aaagatggag cgcagacact gaggagcatt gtggaaaaag aagacgtctc aaccacgtct 720  
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 gggactgtcg agatgaaaaa gcctgaactc accgcgacgt ctgtcgagaa gtttctgatc 900  
 gaaaagttcg acagcgtctc ccacttgatg cagctctcgg agggcggaaga atctcgtgct 960  
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 gtgcttgaca ttggggagtt cagcggagac ctgacctatt gcatctcccc ccgtgcacag 1140  
 ggtgtacgt tgcgaagact gcctgaacc gaactgcccg ctgttcttca cgcgcgtgcg 1200  
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## 591508035Seq1ist.txt

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gctctcgatg	agctgatgct	ttgggcccag	gactgccccc	aagctccgca	ctctctgcac	1440
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tggaccgatg	gctgtgtaga	agtactcgcc	gatagtggaa	accgacgccc	cagcactcgt	1860
ccgaggcgaa	aggaattagag	ttagatccga	ccgtctagt	aatttccgca	atctgtcaaa	1920
catttggcaa	taaagtttct	taagattgaa	tcctgttgcc	gggtcttgcga	tgattatcat	1980
ataatttctg	ttgaattacg	taagcatgt	aataattaac	atgtaatgca	tgacgttatt	2040
tatgagatgg	gtttttatga	ttagagctcc	gcaattatag	attttaacg	cgatagaaaa	2100
caaaatatg	cgcgcaaaact	aggataaatt	atcgcgcgcg	gtgtcatcta	tgttacta	2158

&lt;210&gt; 58

&lt;211&gt; 1757

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Synthetic promoter sequence

&lt;400&gt; 58

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tttttccctg	ggaagacacc	tatgggacga	agatatattg	ttctttatat	agcaccaaac	120
aaattttaata	tatatatata	tatatatata	tatatatata	tatatatata	tatatatata	180
tatatatata	tatatatata	tatatatata	tatcacatca	gtctctgcac	aaagtgcac	240
ctggggctgt	tcaattataa	agccccattc	accacatttg	ctagatagtc	gaaaagcacc	300
atcaaatfctg	agcttcagg	atftttgggt	gtgtgtgggt	tggtattgatt	ctaattatata	360
ccaaatcaat	ataattcact	accaaaaaat	accatagacc	tcacaaatctt	attaattttg	420
gtagcttaag	atggatataa	taataaacca	taaacaactg	attctaattt	tactacggcc	480
cagtatgtac	caatacaaaa	caacgagtat	gtttctcttc	atcgtaattcg	tacacagtac	540
aaaaaaaaact	ggccagcctt	tcttgggctg	gggtctctct	tcgaaaggct	acaaaaacga	600
cacggcgagta	acggcgcttc	gctgcgtgtt	aacggccacc	aacccccccg	tgagcaaacg	660
gcactcagctt	tccacctctc	cgatatctcc	gcggcgccgt	ctggaccctg	cccccttccg	720
ttctcttctt	tcttctcctg	gtttgcgtgg	tggggacgga	ctccccaaac	cgcctctccc	780
tctctccttt	ctttattttg	ctatatcttc	actggggccc	acccaccgca	ccccctgggg	840
cactcacgag	tccccctctc	ccacactata	aataccccac	ccccctctcg	ctcttctctc	900
cgtaacatcg	accccaaaaa	cgcagagaaa	aaaaaatctc	ccctcgaagc	gaagcgctga	960
atcgcctctc	caaggtatgc	gattttctga	tcctctccgt	tcctcgcgtt	tgatttgatt	1020
tcccgccctg	ttcggtatgt	tgagatgttg	tggttagtct	ccgtttttcg	atctgttgga	1080
gatttgaaca	ggttttagatg	gggttcgcgt	gggtatgctg	atctgttgatt	atgagcgatg	1140
ctgttctggtg	tccaagtatt	gattggttcg	gatctagtag	tagaactgtg	ctagggttgt	1200
gattcgtctc	gattcgttca	attagtagga	tttagtcttg	gtttttctct	tgtatccaag	1260
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cagtttgcgc	atgggatttct	agtagttcat	agacctgcat	attatttttg	tgaacacgag	1560
cacggttgctg	ctctcttatt	ttgtaggtca	ctgttggtgt	tgataggtag	actgatgtta	1620
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acttgcctgg	tattgtttata	atttcatggt	catagttgct	gacctgcctt	cggtaattgt	1740
gtgtgcagat	ctctaga					1757

&lt;210&gt; 59

&lt;211&gt; 926

&lt;212&gt; DNA

&lt;213&gt; Unknown

&lt;220&gt;

&lt;223&gt; GUS gene partial fragment



## 591508035Seq1ist.txt

```

<400> 59
gatatctacc cgcttcgcgt cggcatccgg tcagtggcag tgaagggcga acagtctcgt 60
ataaaccaca aaccgttcta ctttactggc ttgggtctgc atgaagatgc ggacttacgt 120
ggcaaaaggt tcgataaacgt gctgatgggt cagcaccacg cattaatgga ctggattggg 180
gccaactcct accgtaacct gcattaccct tacgctgaag agatgctcca ctgggcagat 240
gaacatggta tctgtggtgat tgatgaaact gctgctgtcg gcttttaacc ctcttttaggc 300
attggttttcg aagcggggcaa caagccgaaa gaactgtaca gcgaagagggc agtcaacggg 360
gaacttcgca aagcgcactt acaggcgatt aaagagctga tagcgctgtg caaaaaccac 420
ccaagcgtggt tgatgtggag tattgccaac gaaccggata ccgctccgca agtgcacggg 480
aatattttcg cactggcgga agcaacgcgt aaactcgacc cgacgcgtcc gatcacctgc 540
gtcaatgtaa tgtttctgca cgctcacacc gataccatca gcgatctctt tgatgtgctg 600
tgcttgaacc gttattacgg atgggtatgtc caaagcggcg atttggaaac ggcagagaag 660
gtactggaaa aagaactctt ggcttggcag gagaacttgc atcagccgat tatcatcacc 720
gaatacggcg tggatacgtt agccgggctg cactcaatgt acaccgacat gtggagttaa 780
gagtatcagt gtgcatggct ggatatgtat caccgcgtct ttgatcgcgt cagcggcgtc 840
gtcggtgaa acggtatggaa ttctgccgat ttgcgacct cgcaaggcat attgcgcgtt 900
ggcggtaaca agaaagggat cttcac

```

```

<210> 60
<211> 1198
<212> DNA
<213> Oryza sativa

```

```

<400> 60
cctctagctc atggcttgaa tgtgtgagaa tcatagatta ttattttcta atctataaca 60
tgatggcttt agtctaaaaat gatcaccccta attctaattgc aatggacggt 120
gttttttgta cagacatgga gatgtgtgttg atgctatgaa tagtgcgatg ttttaagtgt 180
gttatttaatt ttggatatag actgacaaat gattatattc ttctaattga ttaaaattcta 240
cttttggatg gttgatagga ttattttcaa gttatttgaa gaacttgcag catgtgggggt 300
atatgggttat actacgtgac atatatattc agtgggagtt cagagttttg gcttgtcttc 360
aggcatacat ataccataggc acaagttccg cgcaaaagca tacaaggaag atctatacaa 420
cactgtttccc ctctcttggg aaattttgtt ggcaacagat gccttctcct tctttcagct 480
tctgtcttcc tagtcagttt ggaggaagca gcaaatagtt gatgatatga gaatcctcta 540
catcggcgctg gtgtaccaca cgactttatt attatttata ttattattat tatttttta 600
caaaaataaa atagatcagt cctcaccaa caagtagagc aagtgttgga gttattgtaa 660
agtttctacaa agctaattta aaagtatttg catlaactta ttctatatta caaacaagag 720
tgtcaatgga acaatgaaaa ccatatgaca tactataatt ttgtttttat tattgaaatt 780
ataataattca aagagaataa atccacatag ccgtaaaagt ctacatgtgg tgcattacca 840
aaatatatata agctttacaaa acatgacaag cttagtittga aaaattgca tccttatcac 900
attgacacat aaagtgagtg atgagtcata atattatttt tcttgyctacc catcatgtat 960
atatgatagc cacaagaagta ctttgatgat gataccaaa aacattttac ggtgcaccta 1020
acagataatc caaataatat gactcactta gatcataata gagcatcaag taaaactaac 1080
actctaaagc aaccgatggg aaagcatcta taaatagaca agcacaatga aaactctcat 1140
catcctttcac cacaattcaa atattatagt tgaagcatag tagtagaatc caacaaac 1198

```

```

<210> 61
<211> 163
<212> DNA
<213> Oryza sativa

```

```

<220>
<223> 10kDa prolamin terminator

```

```

<400> 61
tcaaacggtg gttacatgta ctctagtaat aaggtgttgc atactatcgt gtgcaaacac 60
tagaataaag aaccattgaa taaaatatca atcattttca gacttgcaaa tattgggtat 120
ttggatttct gtccccatgc cctcttgaaa gccatgctgt aca

```

```

<210> 62
<211> 984
<212> DNA
<213> Oryza sativa

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## 591508035SeqList.txt

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<220>
<223> GLUTELIN-A3 promoter

<400> 62
agaagaaaga taaataaccg aaactatttg gagagcattc aggttacatg gttagtccat 60
ggtgctagat attgtctatat aatactcaat gcaatgtctca atagatataa gtttcaaagc 120
tgtataagaa ttttaggtta ggtgcaatg taagtgtagc ttcttatagc ttagtgcttt 180
actatcttca caagcacatg ctatagtatt gttccaagat gaaagaataa ttcacacctg 240
ctaccaactt gcatgatatt atatttgtga atactctatc tcttggtcta taatgaaatg 300
tgctgctggg ttataacctga ccattggtatt tgagagacct ttgtatagct gaaaccaacg 360
tatatgcgag catggaacaa gagaaacaaa tgcaaggatt tttttatact ggttcatgcc 420
cctggatggg ttaatatcgt gatcatcaaa aaagatatgc ataaaattaa agtaataaat 480
ttgtctataa gaaaccaaaa ccaaaagcac atatgtccta aacaaactgc attttgtttg 540
tcattgtatga atacaagaga taatatatga cgtggttatg acttattcac tttttgtgac 600
tccaaaaatg agtaggtcta actgatttgtt taaagtgtatg tgcttactgt agaagtttca 660
tccaaaaagc aatcactaaa gcaacacaca acgtatagtc caccttgac gtaattcttt 720
gtggaagata acaagaaggc tcaactgaaa ataaaagcaa agaaaaggat atcaaacaga 780
ccattgtgta tccattgat acttgtatgt ctatttatct atccaccttt tgtgtacctt 840
acttttatct agtgagtcac ttcatatgtg gacattaaca aactctatct taacatctag 900
tcgatcacta ctttacttca ctataaaagg accaacatat atcaccattt ctcacaaaag 960
cattgagttc agtcccacaa aaac 984

<210> 63
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> recombinant construct

<400> 63
atgaagatca ttttcgtatt tgctctcctt 30

<210> 64
<211> 45
<212> DNA
<213> Artificial Sequence

<220>
<223> recombinant construct

<400> 64
atgaagatca ttttcgtatt tgctctcctt gctattgttg catgc 45

<210> 65
<211> 30
<212> DNA
<213> Artificial Sequence

<220>
<223> recombinant construct

<400> 65
caaagttata gacaatatca actacaatcg 30

<210> 66
<211> 15
<212> DNA
<213> Artificial Sequence

<220>
<223> recombinant construct

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## 591508035Seq1ist.txt

<400> 66		
gagttcgtaa ttcaa		15
<210> 67		
<211> 45		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> recombinant construct		
<400> 67		
gagttcgtaa ttcaacagca tagcatagtg gcaacccct tctgg		45
<210> 68		
<211> 45		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> recombinant construct		
<400> 68		
caacaatctc actaccaggc cattagtagc gttcaggcga ttgtg		45
<210> 69		
<211> 15		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> recombinant construct		
<400> 69		
gctcaagctc aagct		15
<210> 70		
<211> 30		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> recombinant construct		
<400> 70		
tactttgatc agactcaagc tcaagctcaa		30
<210> 71		
<211> 16		
<212> DNA		
<213> Artificial Sequence		
<220>		
<223> recombinant construct		
<400> 71		
tgccagcagca gtgttg		16
<210> 72		
<211> 23		
<212> DNA		
<213> Artificial Sequence		

591508035Seq1ist.txt

```

<220>
<223> recombinant construct

<400> 72
tgcagcagca ggtgtgccaa cag
23

<210> 73
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> recombinant construct

<400> 73
Met Lys Ile Ile Phe Val Phe Ala Leu Leu Ala Ile Val Ala Cys Asn
1 5 10 15
Ala Ser Ala Arg Phe Asp
20

<210> 74
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> recombinant construct

<400> 74
Met Lys Ile Ile Phe
1 5

<210> 75
<211> 10
<212> PRT
<213> Artificial Sequence

<220>
<223> recombinant construct

<400> 75
Met Lys Ile Ile Phe Val Phe Ala Leu Leu
1 5 10

<210> 76
<211> 14
<212> PRT
<213> Artificial Sequence

<220>
<223> recombinant construct

<400> 76
Met Lys Ile Ile Phe Val Phe Ala Leu Leu Ala Ile Val Ala
1 5 10

<210> 77
<211> 10
<212> PRT
<213> Artificial Sequence

<220>

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<223> recombinant construct

<400> 77

Gln Ser Tyr Arg Gln Tyr Gln Leu Gln Ser  
1 5 10

<210> 78

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> recombinant construct

<400> 78

Glu Phe Val Arg Gln  
1 5

<210> 79

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> recombinant construct

<400> 79

Glu Phe Val Arg Gln Gln His Ser Ile Val Ala Thr Pro Phe Trp  
1 5 10 15

<210> 80

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> recombinant construct

<400> 80

Gln Gln Ser His Tyr Gln Ala Ile Ser Ser Val Gln Ala Ile Val  
1 5 10 15

<210> 81

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> recombinant construct

<400> 81

Ala Gln Ala Gln Ala  
1 5

<210> 82

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> recombinant construct

<400> 82

Tyr Phe Asp Gln Thr Gln Ala Gln Ala Gln  
 1 5 10

<210> 83  
 <211> 5  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> recombinant construct

<400> 83  
 Gln Gln Gln Cys Cys  
 1 5

<210> 84  
 <211> 7  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> recombinant construct

<400> 84  
 Gln Gln Gln Cys Cys Gln Gln  
 1 5

<210> 85  
 <211> 9  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> recombinant construct

<400> 85  
 Glu Phe Val Arg Gln Gln Cys Ser Pro  
 1 5

<210> 86  
 <211> 11  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> recombinant construct

<400> 86  
 Cys Gln Val Met Gln Gln Gln Cys Cys Gln Gln  
 1 5 10

<210> 87  
 <211> 6  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> recombinant construct

<400> 87  
 Gln Gln Cys Cys Gln Gln  
 1 5

## 591508035Seqlist.txt

<210> 88  
 <211> 6  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> recombinant construct

<400> 88  
 Glu Phe Val Arg Gln Gln  
 1 5

<210> 89  
 <211> 144  
 <212> PRT  
 <213> Oryza sativa

<220>  
 <223> RM4

<400> 89  
 Met Lys Ile Ile Phe Val Phe Ala Leu Leu Ala Ile Ala Ala Cys Ser  
 1 5 10 15  
 Ala Ser Ala Gln Phe Asp Val Leu Gly Gln Ser Tyr Arg Gln Tyr Gln  
 20 25 30  
 Leu Gln Ser Pro Val Leu Leu Gln Gln Gln Val Leu Ser Pro Tyr Asn  
 35 40 45  
 Glu Phe Val Arg Gln Gln Tyr Gly Ile Ala Ala Ser Pro Phe Leu Gln  
 50 55 60  
 Ser Ala Ala Phe Gln Leu Gln Gln Leu Ala Leu Val Ala Gln Gln Ser  
 65 70 75 80  
 His Tyr Gln Asp Ile Asn Ile Val Gln Ala Ile Ala Gln Gln Leu Gln  
 85 90 95  
 Leu Gln Gln Phe Gly Asp Leu Tyr Phe Asp Arg Asn Leu Ala Gln Ala  
 100 105 110  
 Gln Ala Leu Leu Ala Phe Asn Val Pro Ser Arg Tyr Gly Ile Tyr Pro  
 115 120 125  
 Arg Tyr Tyr Gly Ala Pro Ser Thr Ile Thr Thr Leu Gly Gly Val Leu  
 130 135 140

<210> 90  
 <211> 156  
 <212> PRT  
 <213> Oryza sativa

<220>  
 <223> RM5

<400> 90  
 Met Lys Ile Ile Phe Val Phe Ala Leu Leu Ala Ile Val Ala Cys Asn  
 1 5 10 15  
 Ala Ser Ala Arg Phe Asp Ala Leu Ser Gln Ser Tyr Arg Gln Tyr Gln  
 20 25 30  
 Leu Gln Ser His Leu Leu Leu Gln Gln Gln Val Leu Ser Pro Cys Ser  
 35 40 45  
 Glu Phe Val Arg Gln Gln His Ser Ile Val Ala Thr Pro Phe Trp Gln  
 50 55 60  
 Pro Ala Thr Phe Gln Leu Ile Asn Asn Gln Val Met Gln Gln Gln Cys  
 65 70 75 80  
 Cys Gln Gln Leu Arg Leu Val Ala Gln Gln Ser His Tyr Gln Ala Ile  
 85 90 95  
 Ser Ser Val Gln Ala Ile Val Gln Gln Leu Gln Gln Val Gly  
 100 105 110

591508035Seq1ist.txt

Val Val Tyr Phe Asp Gln Thr Gln Ala Gln Ala Gln Ala Leu Leu Ala  
 115 120 125  
 Leu Asn Leu Pro Ser Ile Cys Gly Ile Tyr Pro Asn Tyr Tyr Ile Ala  
 130 135 140  
 Pro Arg Ser Ile Pro Thr Val Gly Gly Val Trp Tyr  
 145 150 155

<210> 91  
 <211> 158  
 <212> PRT  
 <213> Oryza sativa

<220>  
 <223> RM7

<400> 91  
 Met Lys Ile Ile Phe Val Phe Ala Leu Leu Ala Ile Val Ala Cys Asn  
 1 5 10 15  
 Arg Ser Ala Arg Phe Asp Pro Leu Ser Gln Ser Tyr Arg Gln Tyr Gln  
 20 25 30  
 Leu Gln Ser His Leu Leu Leu Gln Gln Val Leu Ser Pro Cys Ser  
 35 40 45  
 Glu Phe Val Arg Gln Gln Tyr Ser Ile Val Ala Thr Pro Phe Trp Gln  
 50 55 60  
 Pro Ala Thr Phe Gln Leu Ile Asn Asn Gln Val Met Gln Gln Gln Arg  
 65 70 75 80  
 Met Cys Cys Gln Gln Leu Arg Leu Val Ala Gln Gln Ser His Tyr Gln  
 85 90 95  
 Ala Ile Ser Ile Val Gln Ala Ile Val Gln Gln Leu Gln Gln Gln  
 100 105 110  
 Phe Ser Gly Val Tyr Phe Asp Gln Thr Gln Ala Gln Ala Gln Thr Leu  
 115 120 125  
 Leu Thr Phe Asn Leu Pro Ser Ile Cys Gly Ile Tyr Pro Asn Tyr Tyr  
 130 135 140  
 Ser Ala Pro Arg Ser Ile Ala Thr Val Gly Gly Val Trp Tyr  
 145 150 155

<210> 92  
 <211> 134  
 <212> PRT  
 <213> Oryza sativa

<220>  
 <223> RM10

<400> 92  
 Met Ala Ala Tyr Thr Ser Lys Ile Phe Ala Leu Phe Ala Leu Ile Ala  
 1 5 10 15  
 Leu Ser Ala Ser Ala Thr Thr Ala Ile Thr Thr Met Gln Tyr Phe Pro  
 20 25 30  
 Pro Thr Leu Ala Met Gly Thr Met Asp Pro Cys Arg Gln Tyr Met Met  
 35 40 45  
 Gln Thr Leu Gly Met Gly Ser Ser Thr Ala Met Phe Met Ser Gln Pro  
 50 55 60  
 Met Ala Leu Leu Gln Gln Gln Cys Cys Met Gln Leu Gln Gly Met Met  
 65 70 75 80  
 Pro Gln Cys His Cys Gly Thr Ser Cys Gln Met Met Gln Ser Met Gln  
 85 90 95  
 Gln Val Ile Cys Ala Gly Leu Gly Gln Gln Gln Met Met Lys Met Ala  
 100 105 110  
 Met Gln Met Pro Tyr Met Cys Asn Met Ala Pro Val Asn Phe Gln Leu  
 115 120 125  
 Ser Ser Cys Gly Cys Cys



## 591508035Seq1ist.txt

130

<210> 93  
 <211> 149  
 <212> PRT  
 <213> Oryza sativa

<220>  
 <223> RM16

<400> 93  
 Met Lys Ile Phe Val Ile Leu Ser Leu Leu Ala Leu Ala Ala Ser Ser  
 1 5 10 15  
 Ala Ser Ala Gln Phe Asp Ala Cys Thr Tyr Gly Gln Cys Gln Gln  
 20 25 30  
 Pro Phe Met Gln Pro Ile Met Asn Pro Cys Asn Glu Phe Val Arg Gln  
 35 40 45  
 Gln Cys Ser Pro Met Ser Leu Pro Trp Lys Gln Ser Arg Arg Leu Gln  
 50 55 60  
 Leu Ser Ser Cys Gln Val Met Arg Gln Gln Cys Cys Gln Gln Met Arg  
 65 70 75  
 Leu Met Ala Gln Gln Tyr His Cys Gln Ala Ile Cys Thr Met Val Gln  
 85 90 95  
 Ser Ile Met Gln Gln Val Gln Phe Asp Ala Gly Phe Val Gly Glu Pro  
 100 105 110  
 Gln Ala Gln Ala Gln Ala Gln Val Ala Leu Asn Leu Pro Ser Met Cys  
 115 120 125  
 Gly Val Tyr Pro Arg Tyr Cys Ser Thr Pro Cys Lys Val Ala Thr Gly  
 130 135 140  
 His Cys Gly Ser Trp  
 145

<210> 94  
 <211> 596  
 <212> DNA  
 <213> Oryza sativa

<220>  
 <223> RM4

<400> 94  
 gcaaaataga aagatctagt gtcccgagc aatgaagatc attttcgtct ttgctctcct 60  
 tgctatttgc gcatgcagcg cctctgcgca gtttgatgtt ttagggtcaaa gttataggca 120  
 atatcagctg cagtcgcctg tcttgctaca gcaacaggtg cttagcccat ataattgagt 180  
 cgtaaggcag cagtatggca tagcggcaag cccttctgt caatcagctg cgtttcaact 240  
 gagaacaac caagtctggc aacagctcgc gctggtggcg caacaatctc actatcagga 300  
 cattaacatt gtccaggcca tagcgcagca gctacaactc cagcagtttg gtgactctta 360  
 ctttgatcgg aatctggctc aagctcaagc tctgttggtt ttaacgtgc catctagata 420  
 tggatctac cctaggctac atgggtgacc cagtaccatt accacccttg gcggtgtcct 480  
 gtaatgagtt ttaacagtat agtgggttcg aagttaaaaa taagctcaga tatcatatat 540  
 gtgacatgtg aaactttggg tgatataaat agaaaaaaag ttgtctttca tatttta 596

<210> 95  
 <211> 597  
 <212> DNA  
 <213> Oryza sativa

<220>  
 <223> RM5

<400> 95  
 caattcaaac attatagttg aagcatagta gtagaatcct acaaaaatga agatcatttt 60  
 cgtatttgcg ctcttgctga ttgttgcag caacgcttct gcacgggttg atgctcttag 120

## 591508035Seq1ist.txt

tcaaagttat	agacaatatc	aactacaatc	gcattctcctg	ctacagcaac	aagtgtctcag	180
cccatgcagt	gagttcgtaa	ggcaacagca	tagcatagt	gcaaccccc	tctggcaacc	240
agctacgttt	caattgataa	acaaccaagt	catgcagcaa	cagtgttgcc	aacagctcag	300
gctggttagc	caacaatctc	actaccaggc	catttagtagc	gttcaggcga	ttgtgcaagca	360
actacagcgc	cagcaggtcg	gtgttgctca	ctttgatcag	actcaagctc	aagctcaagc	420
tttgtctgcc	ttaaactttgc	catccatagt	tggtatctat	cctaactact	acattgtctcc	480
gaggagcatt	cccaccgttg	gtggtgtctg	gtactgaatt	gtaattagat	aatggttcaa	540
atgttaaaaa	taaagtcatt	catcatcatg	cgtgacagtt	gaaaaaaaa	aaaaaaa	597

<210> 96  
 <211> 609  
 <212> DNA  
 <213> *Oryza sativa*

<220>  
 <223> RM7

<400> 96						
gaagcatagt	agtagaatcc	aaacaacaatg	aagatcattt	tcgtatttgc	tctccttgc	60
attgttgcac	gcaatcgctc	tcgcgcggttt	gatcctctta	gtcaaagtta	taggcaatat	120
caactacagt	cgcattctct	actacagcaa	caagtgtcca	gcccatgcag	tgagttcgta	180
aggcaacagt	atagcatagt	ggcaaccccc	ttctggcaac	gagctcagtt	tcaattgata	240
aaacaaccaag	tcattgcagca	gcagtgttgc	caacagctca	ggctgttgat	acaacaactct	300
cactaccagg	ccattagtagt	tggtcaagcg	attgtgcaac	agctacaact	gcagcaattt	360
agtgtgtctc	actttgatca	gactcaagct	caagcccaaa	ctctgttgac	cttcaacttg	420
ccatccatatt	gtggtatcta	ccctaactac	tatagtgtct	ccaggagcat	tgccactgtt	480
ggtgtgtgtc	ggtactgaat	tgtaacaata	taatagttcg	tatgttataa	ataaagtcac	540
acatcatcat	gtgtgactgt	tgaaacttag	ggtcatataa	atctaataaa	aatcatctta	600
ccataaaaa						609

<210> 97  
 <211> 1002  
 <212> DNA  
 <213> *Oryza sativa*

<220>  
 <223> intron sequence

<400> 97						
tctagatcta	agaatggctc	gtgccttaaa	actttcccca	accgtgctag	tttatgttgt	60
gactgtctgc	ctctctcagt	ttactttggat	gcattgacaa	catccttttt	tgctattact	120
cgtattttgc	ctatagctgg	ttgcataatct	catgtttgaaa	tttgcccttt	taatccaaaa	180
ttgtagtgaa	ttgaaagaa	ccctacgtggt	agttattttg	attttgttgt	gaaaaaaaat	240
agccttggtta	gaagaagcaa	aattggattt	agttaaaaag	atactagatt	gtgttatttg	300
gattttgggt	caaatcaaat	taggaggttg	gtttttattca	agttaaagt	tgttttaaaa	360
aaatttctct	aaaaagatag	atactagatt	tgcatatatg	cattgaaaa	tacatctctc	420
cttggcgggt	atacttttag	tcctctctaaa	ttgttcaatc	atttatgatg	aaaaggaaaa	480
tcattttata	tcacaagatga	tttatgatga	aaggggaaaa	ataattcgca	tggttttgaa	540
caaaattacgt	ggattgggtg	agccttaaca	tacttgaaaa	gggtatgatg	ttgatgtagt	600
gccacacagg	gtgtcgcttg	cattaaaaag	atatgcagtc	agatttgagg	aacattgtct	660
acaatttact	atcgctgtct	gtgttgacca	caataatcca	gatgtaccat	ccatctctct	720
aactagaaag	atgcattggaa	gtttcttaca	ttatttccag	caacttgaaa	tttagtgaaa	780
tatcatataa	acataaccac	ttactttgct	gtgatatgaa	ataaatgttt	tatttcttgg	840
aaagtgggtat	attcatatat	tcttacagta	aatttattga	ttttcttttc	atttatttct	900
aaatttttaac	cacccttttg	gtagcttaag	gaaaattgta	tgtttgacag	tcctgttttc	960
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<400> 98

# 591508035Seq1ist.txt

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 1 5 10 15  
 Gln Ser His Tyr Gln Ala Ile Ser Ser Val Gln Ala Ile Val Gln Gln  
 20 25 30  
 Leu Gln Leu Gln Gln  
 35

<210> 99  
 <211> 34  
 <212> PRT  
 <213> Oryza sativa

<400> 99  
 Met Lys Ile Ile Phe Val Phe Ala Leu Leu Ala Ile Val Ala Cys Asn  
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 Ala Ser Ala Arg Phe Asp Ala Leu Ser Gln Ser Tyr Arg Gln Tyr Gln  
 20 25 30  
 Leu Gln

<210> 100  
 <211> 26  
 <212> PRT  
 <213> Oryza sativa

<400> 100

Glu Phe Val Arg Gln Gln His Ser Ile Val Ala Thr Pro Phe Trp Gln  
 1 5 10 15  
 Pro Ala Thr Phe Gln Leu Ile Asn Asn Gln  
 20 25

<210> 101  
 <211> 31  
 <212> PRT  
 <213> Oryza sativa

<400> 101  
 Tyr Phe Asp Gln Thr Gln Ala Gln Ala Gln Ala Leu Leu Ala Leu Asn  
 1 5 10 15  
 Leu Gln Ser Ile Cys Gly Ile Tyr Pro Asn Tyr Tyr Ile Ala Pro  
 20 25 30

<210> 102  
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<220>  
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## 591508035Seqlist.txt

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<220>
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1n Val Met Gln Gln Gln Cys Cys Gln Gln Xaa Xaa Xaa Val Ala Gln  
5 10 15

car nnn cay tay car gcn atg nnn nnn gtn car gcn atg gtn car car 96  
Gln Xaa His Tyr Gln Ala Met Xaa Xaa Val Gln Ala Met Val Gln Gln  
20 25 30

nnn car nnn car car 111  
Xaa Gln Xaa Gln Gln  
35

$\langle 210 \rangle$	103
$\langle 211 \rangle$	102

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<212> DNA
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<220>
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<223> n is a, c, g, or t

<400> 103

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591508035SeqList.txt

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Met Lys Met Met Phe Val Phe Ala Xaa Xaa Ala Met Val Ala Cys Asn	
1 5 10 15	
gcn nnn gcn nnn tty gay gcn nnn nnn car nnn tay nnn car tay car	96
Ala Xaa Ala Xaa Phe Asp Ala Xaa Xaa Gln Xaa Tyr Xaa Gln Tyr Gln	
20 25 30	
nnn car	102
Xaa Gln	
<210> 104	
<211> 78	
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<213> Oryza sativa	
<220>	
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<223> n is a, c, g, or t	
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<223> n is a, c, g, or t	
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<223> n is a, c, g, or t	
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<223> n is a, c, g, or t	
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<223> n is a, c, g, or t	
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<223> n is a, c, g, or t	
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<223> n is a, c, g, or t

<220>

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<222> (64)..(66)

<223> n is a, c, g, or t

<400> 104

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Glu	Phe	Val	Xaa	Gln	Gln	His	Xaa	Met	Val	Ala	Thr	Pro	Phe	Trp	Gln	
1			5					10						15		

ccn	gcn	acn	tty	car	nnn	atg	aay	aay	car	78
Pro	Ala	Thr	Phe	Gln	Xaa	Met	Asn	Asn	Gln	
		20					25			

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<211> 93

<212> DNA

<213> Oryza sativa

<220>

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<400> 105

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Tyr	Phe	Asp	Gln	Thr	Gln	Ala	Gln	Ala	Gln	Ala	Leu	Leu	Ala	Leu	Asn	
1			5					10						15		

ttg	caa	tcc	ata	tgt	ggc	atc	tat	cct	aac	tac	tac	att	gct	ccg	93
Leu	Gln	Ser	Ile	Cys	Gly	Ile	Tyr	Pro	Asn	Tyr	Tyr	Ile	Ala	Pro	
			20					25					30		

<210> 106

<211> 1426

<212> DNA

<213> Oryza sativa

<400> 106

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cactagtcaa	gttgcaacttg	gcctagagtc	tcaattgtag	tataaatgat	ataataatct	180
taaaattaaa	attagcaaat	aacaagttca	attagggttg	aagccgtaat	tctattttta	240
taatttaatc	attcttaaat	ttagaattac	taaaaaataa	ttattaatac	agcgtgtgac	300
ttgctgtaga	gactcatata	gtttttacga	cgatttaata	atttcaaaaa	taaacacagg	360
aaattgctaa	gtttgtaatc	taaaatataa	tattgtcata	atataataat	tctaaaaatc	420
aaattataaa	ataccaagtt	gatgttttat	ttaaaatata	tagtatgtgc	cgcacagctt	480
gatgtcttagt	ctagatcttt	taaccgtgct	acgctggggt	aattagcgat	gggtcgagtc	540
acgtaccctaa	atttcttcac	tggtggatca	actagagtag	ttaaaacgag	gcattgtgatg	600
aaggctagct	atttgaattt	ttccaattat	ccctgcataa	gtcagggtac	aatagcacct	660
ggactacata	cagggaattac	aaaataggtg	gtaaccacat	ttaccgcgtt	aaccctatca	720
aattcaataa	aatttttaaa	gtaatttgat	tttttaata	aattttgtat	ggtttctcaa	780
gctttatttt	ggttaccgtg	cttactgcgg	gaggcaatgg	gaaaccctca	ctagaagtgtg	840
cacctgtttc	tgctgtgtca	ccatatcatg	ttgaatcatg	tgcgtttgtg	cttttcggaa	900
gaaccgattt	actacatgac	tcatacaatt	cactttacgt	atcaaaaagg	ttgttatggg	960
ggcaatgctt	ttgtgaattt	aaatttttat	tttgcgtcac	gttgatctca	gttaaaccact	1020
acctacctac	cattacaaaa	cctcattcca	caaaacgatg	ctgttagata	aaaaatatga	1080
catgtaaagt	gagtaaatgac	tcatgtttat	tatcaaaaaa	cgataacaat	caaatgatat	1140
aggtagttaa	gtacccttga	aatggcatgt	ccaagtatgt	gtagctccac	ctagcacaaat	1200
atcccaaggt	atcatcataa	aaggcataca	aatacaagca	gccgatgatg	cacacaagaa	1260
acaaacaaa	ttgcacaaa	ccaaaagcaa	ccgatgcctt	gagcatagat	atcatgctat	1320
tcccactata	aatacaaatg	caccatatca	agatgctcct	cacccttact	gaaaaatcac	1380

## 591508035Seq1ist.txt

aaacatcaaa acgttataag agttctctag catccatcac atagcc 1426

<210> 107  
 <211> 1008  
 <212> DNA  
 <213> Oryza sativa

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 ttttaattca ttcttttgtt gaaactgaca tgtgggtccc atgagaatta ttatttttcg 180  
 gatcgaaatt ccacgtaagc gctacgtcaa tgcacgtcca gatgaagacc gagtcaaaatt 240  
 agccacgtaa gcgccacgtc agccaaaacc accatccaaa ccgccgaggg acctcatctg 300  
 cactggtttt gatagtttag ggaccctgtg tatctgtgtt ttcgattgaa ggacgaaaaa 360  
 caaatttgtt gacaagttaa gggaccttaa atgaacttat tccatttcaa aatattctgt 420  
 gagccatata tccgtgggct tccaatcctc ctcaaattaa agggcctttt taaaatagat 480  
 aattgccttc tttcagtcac ccataaaagt acaaaactac taccaacaag caacatgcgc 540  
 agttacacac attttctgca catttccacc acgtcacaaa gagctaagag ttatccctag 600  
 gacaattcta ttagtgtaga tacatccatt aatcttttat cagaggcгаа cgtaaagccg 660  
 ctctttatga caaaaatagg tgacacaaaa gtgttatctg ccacatacat aacttcagaa 720  
 attaccacac accaagagaa aaataaaaaa aaatcttttt gcaagctcca aatcttgcaa 780  
 accttttttc ctctttgcag cattgtactc ttgctctttt tccaaccgat ccatgtcacc 840  
 ctcaagcttc tacttgatct acacgaagct caccgtgcac acaaccatgg ccacaaaaac 900  
 cctataaaac cccatccgat cgccatcatc tcatcatcag ttcatcacca acaacaaaaa 960  
 gaggaaaaaa acatatataa cttctagtga ttgtctgatt gatcatca 1008

<210> 108  
 <211> 72  
 <212> DNA  
 <213> Oryza sativa

<220>  
 <221> CDS  
 <222> (1)..(72)

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 Met Ala Ala Tyr Thr Ser Lys Ile Phe Ala Leu Phe Ala Leu Ile Ala  
 1 5 10 15

ctt tct gca agt gcc act act gca 72  
 Leu Ser Ala Ser Ala Thr Thr Ala  
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<210> 109  
 <211> 24  
 <212> PRT  
 <213> Oryza sativa

<400> 109  
 Met Ala Ala Tyr Thr Ser Lys Ile Phe Ala Leu Phe Ala Leu Ile Ala  
 1 5 10 15  
 Leu Ser Ala Ser Ala Thr Thr Ala  
 20

<210> 110  
 <211> 66  
 <212> DNA  
 <213> Oryza sativa

<220>  
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 <222> (1)..(66)



## 591508035Seq1ist.txt

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<400> 110
atg aag atc att ttc gta ttt gct ctc ctt gct att gtt gca tgc aat      48
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1 5 10 15

gct tct gca cgg ttt gat      66
Ala Ser Ala Arg Phe Asp
20

<210> 111
<211> 22
<212> PRT
<213> Oryza sativa

<400> 111
Met Lys Ile Ile Phe Val Phe Ala Leu Leu Ala Ile Val Ala Cys Asn
1 5 10 15
Ala Ser Ala Arg Phe Asp
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<210> 112
<211> 57
<212> DNA
<213> Oryza sativa

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<222> (1)..(57)

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1 5 10 15

gcc tcg gca      57
Ala Ser Ala

<210> 113
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<212> PRT
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<400> 113
Met Lys Ile Phe Val Ile Leu Ser Leu Leu Ala Leu Ala Ala Ser Ser
1 5 10 15
Ala Ser Ala

<210> 114
<211> 72
<212> DNA
<213> Oryza sativa

<220>
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<222> (1)..(72)

<400> 114
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1 5 10 15

cta tta tgc cat ggt tct atg gcc      72

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## 591508035Seq1ist.txt

Leu Leu Cys His Gly Ser Met Ala  
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<210> 115  
<211> 24  
<212> PRT  
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<400> 115  
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Leu Leu Cys His Gly Ser Met Ala  
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<210> 116  
<211> 66  
<212> DNA  
<213> Oryza sativa

<220>  
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<222> (1)..(66)

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1 5 10 15  
gtg gcc atc tcc gcc gcg 66  
Val Ala Ile Ser Gly Ala  
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<210> 117  
<211> 22  
<212> PRT  
<213> Oryza sativa

<400> 117  
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Val Ala Ile Ser Gly Ala  
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<210> 118  
<211> 8  
<212> PRT  
<213> Oryza sativa

<400> 118  
Ser Arg Ala Met Val Ser Leu Gly  
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<210> 119  
<211> 102  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> recombinant construct

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gccactactg catctagagc aatggtagc aagggcgagg ag 102  
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591508035Seqlist.txt